Atty. Dkt. No. 040679-1173

EUNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Masahiro ARAI et al.

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Title: SYSTEM AND METHOD FOR CONTROLLING INTAKE AIR BY

VARIABLE VALVE TIMING

Appl. No.: 09/727,554

RECEIVED

Filing Date: 12/04/2000

JUL 0 8 2004

Examiner: Jain

Jaime W. Corrigan

TECHNOLOGY CENTER R3700

Art Unit:

3748

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56

Mail Stop AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(c), before the mailing date of either a final action under 37 CFR §1.113, a notice of allowance under 37 CFR §1.311, or an action that otherwise closes prosecution in the application.

RELEVANCE OF EACH DOCUMENT

In a counterpart Japanese application, an Office Action issued on June 8, 2004. According to an English translation obtained by Applicants' representative of the Japanese Office Action, the Japanese Patent Office made certain characterizations of the references.

For the examiner's convenience attached is a partial English translation of the Japanese Office Action.

The disclosure of these characterizations should not be construed as an admission of or agreement to the opinions expressed in the Japanese Office Action.

Documents A1 and A2 claim priority based on the same first-filed application. (Document A1 was not cited in the Japanese Office Action, but is being provided herewith for the Examiner's convenience.)

English translations of the foreign-language documents are not readily available. However, the absence of such translations does not relieve the PTO from its duty to consider the submitted foreign language documents (37 CFR §1.98 and MPEP §609). English language abstracts are provide herewith.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

STATEMENT REGARDING DOCUMENTS A2 TO A5

The undersigned hereby states in accordance with 37 CFR §1.97(e)(1) that each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to filing of this Statement.

The undersigned hereby states in accordance with 37 CFR §1.704(d) that each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR §1.56(c) more than thirty days prior to the filing of the information disclosure statement..

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date July 6, 2004

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Partial translation of Japanese Office Action mailed 06/08/2004 Serial No. 09/727,554 - (Our Ref: 40679/1173,)

Claim 1

Reference 1

Reference 1 discloses a device for controlling intake air quantity for engine, wherein the control of the intake air quantity by valve timing is forced to be less responsive.

Claim 2

Reference 1

It is known to delay to make the response performance of valve timing less responsive. (Refer to References 2 and 3, if necessary.) A person skilled in the art could have easily arrived at delaying by the same amount to make the control of intake air quantity by valve timing less responsive as the response performance of the intake air quantity.

Claims 3 and 4

References 1 and 4

Reference 4 discloses a device for controlling the intake air quantity for an engine having a separate driving range, wherein the throttle valve's opening is almost fixed and the valve timing for air intake valve is variably controlled in order to control the intake air quantity of the engine, from a driving range, wherein the valve timing of the air intake valve is almost fixed and the opening of the throttle valve is variably controlled in order to control the intake air quantity of the engine.

Index of Cited References

- 1. JP 11-311135
- 2. JP 11-002140
- 3. JP 08-284737
- 4. JP 11-117777

Record of Prior Art Literature Search Results

Searched field

IPC 7th Edition

F02D 13/02

F02D 9/02

Prior Art Literature

JP 08-021267

This Record of Prior Art Literature Search Results does not constitute a reason for rejection.

MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are quired to respond to a collection of information unless it contains a valid OMB control number.

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Date Submitted: July 6, 2004

(use as many sheets as necessary)

1 of 1

Sheet

Complete if Known		
Application Number	09/727,554	
Filing Date	12/04/2000	
First Named Inventor	Masahiro ARAI	
Group Art Unit	3748	
Examiner Name	Jaime W. Corrigan	
Attorney Docket Number	040679-1173	

				U.S. PATENT DOCUMENTS	3	
Examiner Cit Initials* No	0:4-	U.S. Patent Document		N	Date of Publication of	Pages, Columns, Lines, Where Relevant
	No.1	Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
	A1	6,397,814	B1	NAGAISHI ET AL.	06-04-2002	

		Foreign Patent Document				Date of Publication of Cited Document	Pages, Columns, Lines, Where	
	Cite No. ¹	Office ³ Number ⁴		Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Documents	MM-DD-YYYY	Relevant Passages or Relevant Figures Appear	T ⁶
	A2	JP	11-311135	Α	NISSAN MOTOR CO., LTD.	11-09-1999		Abst.
	A3	JP	11-002140	Α	UNISIA JECS CORP.	01-06-1999		Abst.
	A4	JP	8-284737	Α	TOYOTA MOTOR CORP.	10-29-1996		Abst.
	A5	JP	11-117777	Α	HITACHI LTD.	04-27-1999		Abst.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials* Cite No.1 Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue numpublisher, city and/or country where published.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶	
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Examiner Signature	Date Considered	

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.